

BC#6

PCT09

## RAW SEQUENCE LISTING

DATE: 08/30/2001

PATENT APPLICATION: US/09/830,647

TIME: 07:37:38

Input Set : A:\ARAI SEQUENCE LISTING.txt

Output Set: N:\CRF3\08302001\I830647.raw

ENTERED

3 <110> APPLICANT: ARAI, Kenichi  
 4 MASAI, Hisao  
 6 <120> TITLE OF INVENTION: Human H37 Protein and cDNA Encoding The Protein  
 8 <130> FILE REFERENCE: 2001-0531A/WMC/00653  
 10 <140> CURRENT APPLICATION NUMBER: 09/830,647  
 11 <141> CURRENT FILING DATE: 2001-04-30  
 13 <150> PRIOR APPLICATION NUMBER: JP No. 10-311408  
 14 <151> PRIOR FILING DATE: 1998-10-30  
 16 <160> NUMBER OF SEQ ID NOS: 4  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 674  
 20 <212> TYPE: PRT  
 21 <213> ORGANISM: Homo sapiens  
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 27 20 25 30  
 28 Lys Thr Asp Asn Arg Pro Glu Lys Ser Lys Cys Lys Pro Leu Trp Gly  
 29 35 40 45  
 30 Lys Val Phe Tyr Leu Asp Leu Pro Ser Val Thr Ile Ser Glu Lys Leu  
 31 50 55 60  
 32 Gln Lys Asp Ile Lys Asp Leu Gly Gly Arg Val Glu Glu Phe Leu Ser  
 33 65 70 75 80  
 34 Lys Asp Ile Ser Tyr Leu Ile Ser Asn Lys Lys Glu Ala Lys Phe Ala  
 35 85 90 95  
 36 Gln Thr Leu Gly Arg Ile Ser Pro Val Pro Ser Pro Glu Ser Ala Tyr  
 37 100 105 110  
 38 Thr Ala Glu Thr Thr Ser Pro His Pro Ser His Asp Gly Ser Ser Phe  
 39 115 120 125  
 40 Lys Ser Pro Asp Thr Val Cys Leu Ser Arg Gly Lys Leu Leu Val Glu  
 41 130 135 140  
 42 Lys Ala Ile Lys Asp His Asp Phe Ile Pro Ser Asn Ser Ile Leu Ser  
 43 145 150 155 160  
 44 Asn Ala Leu Ser Trp Gly Val Lys Ile Leu His Ile Asp Asp Ile Arg  
 45 165 170 175  
 46 Tyr Tyr Ile Glu Gln Lys Lys Lys Glu Leu Tyr Leu Leu Lys Lys Ser  
 47 180 185 190  
 48 Ser Thr Ser Val Arg Asp Gly Gly Lys Arg Val Gly Ser Gly Ala Gln  
 49 195 200 205  
 50 Lys Thr Ser Arg Thr Gly Arg Leu Lys Lys Pro Phe Val Lys Val Glu Asp  
 51 210 215 220  
 52 Met Ser Gln Leu Tyr Arg Pro Phe Tyr Leu Gln Leu Thr Asn Met Pro  
 53 225 230 235 240  
 54 Phe Ile Asn Tyr Ser Ile Gln Lys Pro Cys Ser Pro Phe Asp Val Asp  
 55 245 250 255  
 56 Lys Pro Ser Ser Met Gln Lys Gln Thr Gln Val Lys Leu Arg Ile Gln

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58 Thr Asp Gly Asp Lys Tyr Gly Gly Thr Ser Ile Gln Leu Gln Leu Lys
59          275          280          285
60 Glu Lys Lys Lys Lys Gly Tyr Cys Glu Cys Cys Leu Gln Lys Tyr Glu
61          290          295          300
62 Asp Leu Glu Thr His Leu Ser Glu Gln His Arg Asn Phe Ala Gln
63 305          310          315          320
64 Ser Asn Gln Tyr Gln Val Val Asp Asp Ile Val Ser Lys Leu Val Phe
65          325          330          335
66 Asp Phe Val Glu Tyr Glu Lys Asp Thr Pro Lys Lys Lys Arg Ile Lys
67          340          345          350
68 Tyr Ser Val Gly Ser Leu Ser Pro Val Ser Ala Ser Val Leu Lys Lys
69          355          360          365
70 Thr Glu Gln Lys Glu Lys Val Glu Leu Gln His Ile Ser Gln Lys Asp
71          370          375          380
72 Cys Gln Glu Asp Asp Thr Thr Val Lys Glu Gln Asn Phe Leu Tyr Lys
73 385          390          395          400
74 Glu Thr Gln Glu Thr Glu Lys Lys Leu Leu Phe Ile Ser Glu Pro Ile
75          405          410          415
76 Pro His Pro Ser Asn Glu Leu Arg Gly Leu Asn Glu Lys Met Ser Asn
77          420          425          430
78 Lys Cys Ser Met Leu Ser Thr Ala Glu Asp Asp Ile Arg Gln Asn Phe
79          435          440          445
80 Thr Gln Leu Pro Leu His Lys Asn Lys Gln Glu Cys Ile Leu Asp Ile
81          450          455          460
82 Ser Glu His Thr Leu Ser Glu Asn Asp Leu Glu Glu Leu Arg Val Asp
83 465          470          475          480
84 His Tyr Lys Cys Asn Ile Gln Ala Ser Val His Val Ser Asp Phe Ser
85          485          490          495
86 Thr Asp Asn Ser Gly Ser Gln Pro Lys Gln Lys Ser Asp Thr Val Leu
87          500          505          510
88 Phe Pro Ala Lys Asp Leu Lys Glu Lys Asp Leu His Ser Ile Phe Thr
89          515          520          525
90 His Asp Ser Gly Leu Ile Thr Ile Asn Ser Ser Gln Glu His Leu Thr
91          530          535          540
92 Val Gln Ala Lys Ala Pro Phe His Thr Pro Pro Glu Glu Pro Asn Glu
93 545          550          555          560
94 Cys Asp Phe Lys Asn Met Asp Ser Leu Pro Ser Gly Lys Ile His Arg
95          565          570          575
96 Lys Val Lys Ile Ile Leu Gly Arg Asn Arg Lys Glu Asn Leu Glu Pro
97          580          585          590
98 Asn Ala Glu Phe Asp Lys Arg Thr Glu Phe Ile Thr Gln Glu Glu Asn
99          595          600          605
100 Arg Ile Cys Ser Ser Pro Val Gln Ser Leu Leu Asp Leu Phe Gln Thr
101          610          615          620
102 Ser Glu Glu Lys Ser Glu Phe Leu Gly Phe Thr Ser Tyr Thr Glu Lys
103 625          630          635          640
104 Ser Gly Ile Cys Asn Val Leu Asp Ile Trp Glu Glu Glu Asn Ser Asp
105          645          650          655

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 107 660 665 670

108 Gly Phe

109 674

111 <210> SEQ ID NO: 2

112 <211> LENGTH: 234

113 <212> TYPE: PRT

114 <213> ORGANISM: Homo sapiens

116 <400> SEQUENCE: 2

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119 Gly Ile Gln Val Lys Asn Glu Lys Asn Arg Pro Ser Leu Lys Ser Leu

120 20 25 30

121 Lys Thr Asp Asn Arg Pro Glu Lys Ser Lys Cys Lys Pro Leu Trp Gly

122 35 40 45

123 Lys Val Phe Tyr Leu Asp Leu Pro Ser Val Thr Ile Ser Glu Lys Leu

124 50 55 60

125 Gln Lys Asp Ile Lys Asp Leu Gly Gly Arg Val Glu Glu Phe Leu Ser

126 65 70 75 80

127 Lys Asp Ile Ser Tyr Leu Ile Ser Asn Lys Lys Glu Ala Lys Phe Ala

128 85 90 95

129 Gln Thr Leu Gly Arg Ile Ser Pro Val Pro Ser Pro Glu Ser Ala Tyr

130 100 105 110

131 Thr Ala Glu Thr Thr Ser Pro His Pro Ser His Asp Gly Ser Ser Phe

132 115 120 125

133 Lys Ser Pro Asp Thr Val Cys Leu Ser Arg Gly Lys Leu Leu Val Glu

134 130 135 140

135 Lys Ala Ile Lys Asp His Asp Phe Ile Pro Ser Asn Ser Ile Leu Ser

136 145 150 155 160

137 Asn Ala Leu Ser Trp Gly Val Lys Ile Leu His Ile Asp Asp Ile Arg

138 165 170 175

139 Tyr Tyr Ile Glu Gln Lys Lys Lys Glu Leu Tyr Leu Leu Lys Lys Ser

140 180 185 190

141 Ser Thr Ser Val Arg Asp Gly Gly Lys Arg Val Gly Ser Gly Ala Gln

142 195 200 205

143 Lys Thr Arg Thr Gly Arg Leu Lys Lys Pro Phe Val Lys Val Glu Asp

144 210 215 220

145 Met Ser Gln Ser Pro Ala Val His Leu Met

146 225 230 234

148 <210> SEQ ID NO: 3

149 <211> LENGTH: 2780

150 <212> TYPE: DNA

151 <213> ORGANISM: Homo sapiens

153 <400> SEQUENCE: 3

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155 gtctgagact gagagagcaa cggaatggag gcggggtaga ggcggaaaca caacctgcag 120

156 ggccagagcg aggcgcgaga aggacggcgg cgtgaggggg cggggcgcgc agcgcgagaa 180

157 ggcaggcacg aggggcgagc gcgagggcgg gcacggcgcg tggcgtgaga cggggcgggg 240

158 cgcgcgtatc ggcgcgcgg cgcgctgacg cgttttcaaa tcttcaaccg ccgcagccca 300

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159 ctggtttgtg ctttgcgcct tcttctcccg cgccttgag cggatccgg ccccgaaac 360
160 cggactgca gacgcggtac ctctactgcg tagaggcgt agctggcga aggagagagg 420
161 cggccgtcct gtcaacaggc cgggggaagc cgtgctttcg cggctgcccg gtgcgacact 480
162 ttctccggac ccagcatgta ggtgccgggc gactgccatg aactccggag ccaggggat 540
163 ccacagtaaa ggacatttcc aggttggaat ccaagtcaaa aatgaaaaaa acagaccatc 600
164 tctgaaatct ctgaaaactg ataacaggcc agaaaaatcc aaatgtaagc cactttgggg 660
165 aaaagtattt taccttgact taccttctgt caccatatct gaaaaacttc aaaaggacat 720
166 taaggatctg ggagggcgag ttgaagaatt tctcagcaaa gatatcagtt atcttatttc 780
167 aaataagaag gaagctaaat ttgcacaaac cttgggtcga atttctctg taccaagtcc 840
168 agaactgca tatactgcag aaaccacttc acctcatccc agccatgatg gaagttcatt 900
169 taagtacca gacacagtgt gttaagcag aggaaaatta ttagttgaaa aagctatcaa 960
170 ggaccatgat tttattcctt caaatagtat attatcaaat gccttgcat ggggagtaaa 1020
171 aattcttcat attgatgaca ttagatacta cattgaacaa aagaaaaaag agttgtattt 1080
172 actcaagaaa tcaagtactt cagtaagaga tgggggcaaa agagttggtc gtggtgcaca 1140
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175 gccctgcagt ccatttgatg tagacaagcc atctagtatg caaaagcaaa ctcaggttaa 1320
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177 agagaagaag aaaaaggat attgtgaatg ttgcttgag aaatatgaag atctagaaac 1440
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203 <211> LENGTH: 2719
204 <212> TYPE: DNA
205 <213> ORGANISM: Homo sapiens
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210 ggccagagcg aggcgcgaga aggacggcgg cgtgaggggg cggggcgcg cgcgcgagaa 180
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212 cgcgcgtatc ggccgcgcgg ccgcgtgacg cgttttcaaa tcttcaaccg ccgcagccca 300
213 ctctgtttgt ctttgcgcct tctctctcgc cgccttgag cgggatcccg ccccggaac 360
214 ccgacctgca gacgcggtac ctctactgcg tagaggcgt agctggcgga aggagagagg 420
215 cggccgtcct gtcaacaggc cgggggaagc cgtgctttcg cggtgcccgt gtgcgacct 480
216 ttctccggac ccagcatgta ggtgccgggc gactgccatg aactccggag ccattgagat 540
217 ccacagtaaa ggacatttcc caaatggaat ccaagtcaaa aatgaaaaaa acagaccatc 600
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253 aaaaaaaaaa aaactcgag 2719

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VERIFICATION SUMMARY

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DATE: 08/30/2001

TIME: 07:37:39

Input Set : A:\ARAI SEQUENCE LISTING.txt

Output Set: N:\CRF3\08302001\I830647.raw

L:154 M:112 C: (48) String data converted to lower case,

M:112 Repeated in SeqNo=3

L:208 M:112 C: (48) String data converted to lower case,

M:112 Repeated in SeqNo=4